Syllabus

Name of the Course: B. Voc (Production Technology)

Semester I

Subject Name: Machine Tool Technology		
Course Code : BVPTC101	Semester: I	
Weekly Teaching Hours: TH: 03 Tut: 00	Scheme of Marking TH: 40, IA: 10, Total: 50	
TH Exam Duration: 02 Hours	Scheme of Marking PR:	
Credit:3		

	Content	Hours
Unit – I	1.0 CENTRE LATHE	08
	The centre lathe and its principle of working, Types of lathes, Lathe specification	
	and size, Features of lathe bed, Head stock and tail stock, Feed mechanism and	
	change-gears. carriage saddle, Cross slide, Compound rest, Tool post, Apron	
	mechanism, lathe accessories, Chucks, Face plate, Angle plate, Driving plate,	
	Lathe doges, mandrils, Steady rest, Lathe attachments, Lathe operations-plane and	
	step turning, Taper turning, Screw cutting, Drilling, Boring, reaming, Knurling,	
	Parting off, Under cutting, Relieving, Types of lathe tools and their uses, Brief	
	description of semi automatic lathes such as capstan and turret lathes, their	
	advantages and disadvantages over centre lathe, types of job done on them.	
	General and periodic maintenance of a centre lathe.	
Unit – II	2.0 SHAPING, PLANING & SLOTTING MACHINES	07
	Working principles of planer, shaper and Slotter, Differences and similarities	
	among them, quick return mechanism applied to the machines. types of work	
	done on them, types of tools used, their geometry, General and periodic	
	maintenance of a shaper.	
	DRILLING & BORING MACHINES: Types of tools used in drilling and boring.	
	Classification of drilling and boring machines, principle of working and	
	constructional details of simple and radial drilling M/C and general and	
	periodic maintenance. Operations like facing, counter boring, tapering.	
Unit – III	3.0 MILLING MACHINES	07
	Types of milling machines, constructional features of horizontal milling M/C.	
	general maintenance of the machine, types of milling cutters, milling operations	
	like plane milling, space milling, angular milling form milling, straddle milling,	
	gang milling, Negative rake milling, cutting speed and speed for different tools in	
	up and down milling. Simple, compound and differential indexing, milling of spur	
	gears and racks.	
Unit – IV	4.0 GRINDING MACHINES	07
	Common abrasives, grinding wheel materials, Bonds, Grain and grit of	
	abrasive, Grain structure and shapes of common wheels, various speeds and	
	feeds, Use of coolants, Methods of grinding, Types of grinding machines,	
	precision finishing operations like honing.	
	BROACHING MACHINES: Types of work done on broaching machine. Simple	
	types of broaches and their uses, Types of broaching machines.	
Unit – V	5.0 JIGS AND FIXTURES	07

Object of Jigs and Fixture, Difference between jigs and fixtures, Principle of location, Principle of clamping, Locating and clamping devices. Types of jigs - Simple open and closed (or box) jigs. Drill jigs- bushes (Fixed, Liner, Renewal, Slip). Template, Plate jigs. Channel jigs, Leaf jigs, Simple example of milling, turning, grinding, horizontal boring fixtures and broaching fixtures. Welding fixtures

COOLING PROCESS: Cooling and cutting fluids, difference between coolant and cutting fluid, function and action of cutting fluids, Requirement of good cutting fluids, their selection for different materials and operations AUTOMATION OF MACHINE TOOLS: Introduction to CNC lathe (Computer Numerical Control Lathe) and FMS (Flexible Manufacturing System) Introduction only.

ooks		
Name of Authors	Title of the Book	Publisher
Jain & Gupta	Production Technology	Khanna
J K Kumar	Machine Tool Technology (Hindi)	
Hazra & Choudhary	Workshop Technology Vol. II	Tata MCGraw Hill
P C Sharma	Production Technology	S Chand

Subject Name: General Mechanical Engineering – II		
Course Code : BVPTC102	Semester: I	
Weekly Teaching Hours: TH: 03 Tut: 00	Scheme of Marking TH: 40, IA: 10, Total: 50	
TH Exam Duration: 02 Hours	Scheme of Marking PR:	
Credit:3		

	Content	Hours
Unit – I	1.0 Basics of Thermodynamics	08
	Basic definition of heat, work, Thermodynamic process, parameters of working	
	body and their units, Equation of state, Universal gas constant, Relation between	
	heat capacity and temperature. Determination of quantity of heat.	
Unit – II	2.0 Laws of Thermodynamics	07
	Elementary concept of laws of thermodynamics, first law and second law,	
	Graphical representation of process, The work of expansion and compression of a	
	gas, Change in the state of ideal gas-Isochoric, Isothermal and Adiabatic process,	
	Carnot-cycle.	
Unit – III	3.0 IC ENGINES	07
	External & internal combustion engines, working of diesel and petrol engine,	
	horse power of IC engines.	
Unit – IV	4.0 Steam Generators & Condensers	07
	Construction and working of Babcock & Wilcox boiler, Cochran boiler, Steam	
	condenser & its types.	
Unit – V	5.0 Steam & Gas Turbines	07
	Steam turbine, classification and principle of operation, gas turbine.	

Books		
Name of Authors	Title of the Book	Publisher
Khurmi & gupta	Mechanical engineering	S Chand
Jk kapoor	General mechanical engineering	
P k nag	Basic applied thermodynamic	Tata MCGraw Hill
Khurmi & gupta	Thermal engineering	S Chand

Subject Name: Production Technology		
Course Code : BVPTC103	Semester: I	
Weekly Teaching Hours: TH: 03 Tut: 00	Scheme of Marking TH: 40, IA: 10, Total: 50	
TH Exam Duration: 02 Hours	Scheme of Marking PR:	
Credit:3		

	Content	Hours
Unit – I	1.0 PRODUCTION MACHINE TOOLS	08
	Machine tools used for quantity production, semi automatic multi tools	
	centre lathe. Auto-lathes, sliding head types, Single spindle automatics, Multi-	
	spindle automatics, Mechanical copying systems, Hydraulic servo copying	
	systems for lathe, Electric copying systems.	
	TRANSFER MACHINES: Types of productions. Types of layout, Economic	
	justification of transfer machines, Inline transfer, drum type transfer	
	machines. Automatic loading & Transferring methods, Machining heads,	
	Automatic inspections, Tool servicing, Transfer press linked lines.	
Unit – II	2.0 GENERATION OF FORMS:	07
Unit – 11		07
	Forming 'V' generating. Thread chasing. Die heads. Thread rolling. Thread	
	milling. Thread grinding. Gear planning, Gear shaping, Gear hobbing, Straight	
	Bevel Gear Manufacture. Spiral bevel Gear Manufacture.	
Unit – III	3.0 SURFACE TREATMENT & FINISHING	07
	Meaning of the terms surface treatment and its purpose, Elements of surface	
	treatment cleaning protecting, Colouring, Altering surface properties.	
	Surface Treatment Processes- Wire brushing, Belt sanding, Alkaline cleaning,	
	Vapour degreasing, Pickling, Latest trends in Surface preparation, Ultrasonic	
	cleaning, Solvent cleaning, Painting application by dipping, Hand spraying,	
	Automatic spraying, Electrostatic spray finishing. Electro-coating, Hot dip	
	coating, phosphate coating- Packerising and bonderasing, Buffing,	
	Blackening, Anodising. Electro Nickle Plating, Nickle carbide plating,	
	Sputtering, Automation in Painting.	
	AUTO CONTROL OF SIZE: Auto sizing, Mechanical calliper for turning	
	operation, Pneumatic sizing of external cylindrical ground work, Pneumatic	
	slide position measuring device, Digital slide position measuring device, Auto	
	sizing device for centre-less grinding operation. Friction rollers, Optical	
	measurement.	
Unit – IV	4.0 CUTTING TOOLS FOR MACHINING	07
		07
	Elements of machining process, Single point tools - Basic angles, Chip	
	formation, Effect of manipulating factors such as velocity, size of cut, effect of	
	tool geometry, Tool material, Cutting fluids and contamination in them, Work	
	piece material, Tool life model, Machining economics, Specific power consumption.	
	Basic principles of multipoint tools, Linear travel tools, Broaches, Gear shaper	
	cutters,. Axial feed rotary tools-Twist drill, Reamers, Core drills, Counter	
	bores and counter sinks, Multiple diameter tools, Hobs.	
	Characteristics of tools materials,. Tool materials, Tool steels, High speed	
	steel, Cast cobalt alloys. Carbides or cintered carbide, Ceramics, Carbide tools	
	Surface treatment of cutting tools- Its advantage, Tin coated high speed steel	
	diamonds. Cubic boron nitrides,. Specialised knowledge of steel cutting.	
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U nit – V	5.0 PRESS TOOLS	07

Factors affecting press tool design, Shearing, Bending, Drawing, Combination tools, Progression tools, Rubber die formatting, high energy forming, Explosive forming.

SPECIFICATION OF QUALITY & RELIABILITY: Quality, Specification Designing for production Standardisation, Preferred numbers, Limits and fits, Tolerance build up, Geometric tolerances. Limit gauging.

ooks			
Name of Authors	Title of the Book	Publisher	
P C Sharma	Production Engineering	S Chand	
Tool Design	Donaldson	Tata McGrow Hill	
Technology of Machine Tool	Krar	Tata McGrow Hill	
Production technology	C K Singh		

Subject Name: Metrology and Measuring Instruments		
Course Code: BVPTC104	Semester: I	
Weekly Teaching Hours: TH: 03 Tut: 00	Scheme of Marking TH: 40, IA: 10, Total: 50	
TH Exam Duration: 02 Hours	Scheme of Marking PR:	
Credit:3		

	Content	Hours
Unit – I	1.0 INTRODUCTION	08
	Meaning and scope of metrology in field of engineering, Standards and types	
	of measurements (Line and Wave, length, Primary, Secondary and Tertiary	
	measurement concept only). Limits, Fits and Tolerances, Interchangeability,	
	precision and accuracy, Sources of error	
	PRINCIPLES AND CLASSIFICATIONS OF MEASURING INSTRUMENTS:	
	(a) Principle of Mechanical Measuring Instruments: Lever method, Vernier	
	method, screw and screw nut method, compound gearing and helical spring	
	methods.	
	(b) Principles of Optical Instruments: Reflection, Refraction, Interference,	
	Polarisation, Optical prisms, Lenses and Optical projectors.	
	(c) Principles of Electrical measuring Instruments.	
	(d) Principles of Hydraulic and Pneumatic Instruments.	
Unit – II	2.0 COMPARATORS	07
	General principles of constructions, balancing and graduation of measuring	
	instruments, characteristics comparators, use of comparators, difference between	
	comparators, limit gauges and measuring instruments. Classification of	
	comparators, construction and working of dial indicator, mechanical comparator,	
	mechanical-optical, zeiss optotest, electro limit, electromechanical electronics,	
	pneumatic comparators, gauges, tool makers microscope.	
Unit – III	3.0 SURFACE FINISH	07
	Geometrical characteristics of surface roughness- Wavyness, layflaws, Effect of	
	surface quality on its functional properties. Factor affecting the surface finish,	
	Drafting symbols for surface roughness, Evaluation of surface finish RMS and	
	CLS values, Methods of measuring surface roughness qualitative and quantitative	
	methods, Comparison of surface produce by common production methods.	
Unit – IV	4.0 VARIOUS TYPES OF INSTRUMENTS USED FOR	07

as-Length, distance, height, Thickness,	
Undulations, Surface finish, Thread and	
el & Viscosity-Liquid level measuring	
Plate and cone Viscometer, Two float	
lacement. velocity, acceleration, space	
onic count stroboscope, vibrating reeds	
Vacuum - Idea of atmosphere pressure,	
f instruments such as manometers and	
phragm, capsule Bellows, Bourdon tube	
ple, vacuum gauges (c) Strain - Use of	
Mechanical Power - Dynomometers -	
h. (Reference Only).	
Various types of thermometers,	
on and optical type both).	
AL ERRORS	07
collimeter, checking of straightness,	
circularity (By dial gauge and telerod).	
STRUMENTS: Defects likely to occur in	
remedies. General maintenance of	
	Undulations, Surface finish, Thread and el & Viscosity-Liquid level measuring Plate and cone Viscometer, Two float lacement. velocity, acceleration, space onic count stroboscope, vibrating reeds Vacuum - Idea of atmosphere pressure, finstruments such as manometers and aphragm, capsule Bellows, Bourdon tube ple, vacuum gauges (c) Strain - Use of Mechanical Power - Dynomometers - h. (Reference Only). Various types of thermometers, on and optical type both). AL ERRORS collimeter, checking of straightness, circularity (By dial gauge and telerod). STRUMENTS: Defects likely to occur in

Books		
Name of Authors	Title of the Book	Publisher
RK Jain	Engineering Metrology	Khanna
RK Jain	Mechanical Measurement	
M Mahajan	A text book of metrology	Dhanapat Rai and Sons

Subject Name: Metrology and Measuring Instruments lab		
Course Code : BVPTL105	Semester: I	
Weekly Practicals: PR: 01 Tut: 00	Scheme of Marking TH:	
TH Exam Duration:	Scheme of Marking PR: 25, IA: 25, Total: 50	
Credit:1.5		

Content

- 1. Measurement of angle with the help of sine bar/ Vernier Bevel protractor.
- 2. Study and sketch of various types of optical projectors.
- 3. Study and sketch of various types of comparators and use them for comparing length of given piece.
- 4. To measure the diameter of a hole with the help of precision balls.
- 5. To measure external and internal taper with the help of taper gauges, precision rollers.
- 6. To test the squareness of a component with auto-collimeter.
- 7. To measure the pitch, angle and form of thread of a screw.
- 8. To measure the geometry of a gear having involute profile.
- 9. To measure the straightness of the edge of a component with the help of auto-collimeter.
- 10. To measure the length, breadth, thickness, depth, height with micrometer.
- 11. To measure the length, breadth, thickness, depth, height, with height gauge and Vernier calipers.
- 12. Calibration of Vernier calipers/micrometers.
- 13. Calibration of height gauge/depth gauge.
- 14. Study of a tool maker's microscope.
- 15. Checking of accuracy of snap gauge with slop gauge.
- 16. Checking of accuracy of a plug gauge with micrometer.
- 17. Measurement of areas by polar planimeter.
- 18. Use of feeler, wire, radius and fillet gauges measurement of standard parameters.
- Minimum 10 practical should be conducted

Subject Name: Machine Tool Technology Lab		
Course Code : BVPTL106	Semester: I	
Weekly Practicals: PR: 01 Tut: 00	Scheme of Marking TH:	
TH Exam Duration:	Scheme of Marking PR: 25, IA: 25, Total: 50	
Credit:1.5		

Content

(A) MACHINE SHOP

- 1. (a) Square thread cutting (internal and external) 2 jobs
- (b) Multi-start thread cutting 1 job
- (c) Eccentric Turning 1 job
- 2. Making utility job Planner, Shaper, Slotter 1 job
- 3. Group work on milling machine involving up & down milling in:
- (a) Gang milling 1 job
- (b) Spur gear cutting 1 job
- (c) Helical gear cutting 1 job

(B) FITTING SHOP

- 1. To make a cut and cup tool 1 job
- 2. To make blank and pierce tool 1 job
- 3. To make a male and female fitting jobs 1 job
- 4. To grind a lathe/shaper/planer tool 1 job
- 5. To make different types of keys 3 jobs
- 6. To make complete gauge 2 jobs

Minimum 5 jobs should be prepared from each of above group

Group GPT1 of Qualifier Packs

Course Code : BVPTE117	e: Metal Arc Welding (CSC/Q0204) Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT1 of Qualification Packs
Syllabus for this qualifier Pack is available on http://www.cgsc.in/pdf/MMAW%20L3.pdf	

Course Code : BVPTE128	Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT1 of Qualification Packs
Syllabus for this qualifier Pack is available on http://www.cgsc.in/pdf/MIG_MAG%20or%20GM	//AW%20Welder.pdf

Course Code: BVPTE139	Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT1 of Qualification Packs
Syllabus for this qualifier Pack is available on	20Inert%20Gas%20Welder%20(Final).pdf

Subject Name: CNC Setter Cum Operator (CSC/Q0120)		
Course Code: BVPTE140	Semester: I	
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00	
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200	
Credit:15	Choose any one from specified Group GPT1 of Qualification Packs	
Syllabus for this qualifier Pack is available on http://www.cgsc.in/pdf/CNC%20Setter%20cum%20operator%20-%20Turning.pdf		

Course Code: BVPTE151	Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT1 of Qualification Packs
Syllabus for this qualifier Pack is available on http://www.cgsc.in/pdf/CGSC%20CNC%20Opera	ator%20-%20Vertical%20Machining%20Centre.pdf

Syllabus

Name of the Course: B. Voc (Production Technology)

Semester II

Subject Name: Industrial Management		
Course Code : BVPTC201	Semester: II	
Weekly Teaching Hours: TH: 03 Tut: 00	Scheme of Marking TH: 40, IA: 10, Total: 50	
TH Exam Duration: 02 Hours	Scheme of Marking PR:	
Credit:3		

	Content	Hours
Unit – I	1.0 Introduction	08
	Growth of industry, The management of men, materials and machines, the art of management, Sources of capital- industrial individual enterprise, private	;
	partnership and private Ltd. Co., Joint Stock Co. shares, debentures, financial agencies and their role in promoting industries. Break even analysis.	
Unit – II	2.0 Private sector and public sector	07
	Public sector enterprise, merits and demerits of public sector industry and private sector industry, Line, staff and functional organizations, reasons for the choice of various types of organization, functions of different departments, viz. stores, purchase and sales departments relationship between individual departments.	
Unit – III	3.0 MILLING MACHINES	07
	Definition of wages, real wage and nominal wage, systems of wage payment, incentives, financial and non - financial incentives, Essentials of a good wage plan, essentials of a good incentive scheme. Introduction to elements of cost & indirect expenses, Material cost, labour cost, fixed and variable overheads, components of cost, selling price, Factory expenses, administrative expenses, selling & distribution expenses, depreciation, obsolescence, interest on capital, Idleness, Repair and maintenance.	
Unit – IV	4.0 Labour, industrial & tax laws	07
	Evolution of industrial law, factory act, workmen compensation act, payment of wages act, employee's state insurance act, Industrial dispute act. Role of technician in industry: Position of technician in various engineering departments, Role of a supervisor in industry, Foremanship, duties and qualities of a good foreman.	
Unit – V	5.0 Material management	07
	Introduction, Scope of Material Management selective control techniques-ABC analysis, Material handling, inventory control, Essential steps in inventory control, quality standards.	

oks		
Name of Authors	Title of the Book	Publisher
O P Khanna	Industrial Engineering and Management	Dhanapat Rai an Sons
M Mahajan	Industrial Engineering	Dhanapat Rai an Sons
L C Zamb	Industrial Engineering	Everest

Subject Name: Total Quality Management		
Course Code: BVPTC202	Semester: II	
Weekly Teaching Hours: TH: 03 Tut: 00	Scheme of Marking TH: 40, IA: 10, Total: 50	
TH Exam Duration: 02 Hours	Scheme of Marking PR:	
Credit:3		

	Content	Hours
Unit – I	1.0 Introduction, Basic concepts of total quality management	08
	Introduction to Quality, Dimensions of Quality, Quality Planning, Concept and	
	definition of quality cost, Determinants of Quality, Optimum cost of performance,	
	Principles of TQM, Pillars of TQM, Introduction to leadership and Leadership	
	roles, Quality council and Quality statement, Strategic Planning Process, Deming	
	philosophy.	
Unit – II	2.0 Continuous process improvement	07
	Input /output process Model, Juran trilogy, PDCA Cycle, 5 - 'S' Housekeeping	
	principle, Kaizen Seven tools of Quality (Q-7 tools), Check Sheet, Histogram,	
	Cause and effect diagram, Pereto diagram, Stratification analysis, Scatter diagram,	
	Control charts, Control chart for variables & process capability, Control chart for	
	attributes.	
Unit – III	3.0 Management planning tools & Bench marking	07
	Affinity diagram, Relationship diagram, Tree diagram, Matrix diagram, Matrix	
	data analysis, Arrow Diagram, Process decision programme chart (PDPC),	
	Concept of bench marking, Reason to bench marking, Bench marking process,	
	Types of bench marking, Benefits of bench marking.	
Unit – IV	4.0 Just in time (JIT)	07
	JIT philosophy, Three elements of JIT, Principles of JIT Manufacturing, JIT	
	Manufacturing building blocks, JIT benefits, Kanban & 2 Bin Systems.	
Unit – V	5.0 Total productive maintenance (TPM)	07
	Concept of Total Productive Maintenance, Types of maintenance, OEE (Overall	
	Equipment Efficiency), Stages in TPM implementation, Pillars of TPM,	
	Difficulties faced in TPM implementation.	

Books		
Name of Authors	Title of the Book	Publisher
M Mahajan	Industrial Engineering	Dhanapat Rai and
RK Jain	Engineering Metrology	Khanna

Subject Name: Entrepreneurship		
Course Code : BVPTC203	Semester: II	
Weekly Teaching Hours: TH: 03 Tut: 00	Scheme of Marking TH: 40, IA: 10, Total: 50	
TH Exam Duration: 02 Hours	Scheme of Marking PR:	
Credit:3		

	Content	Hours
Unit – I	1.0 Entrepreneurship and entrepreneur	08
	Need of Employment and Opportunities, Essential Characteristics of a good	
	Entrepreneur, Industrial Policy, Classification of industries- Micro, small scale,	
	Medium scale, Large scale, Type of industries- Production, Job based & Service.	
Unit – II	2.0 Entrepreneurial Development	07
	Product identification/ selection, Site selection, Plant layout, Institutional support needed, Pre-market survey.	
Unit – III	3.0 Entrepreneurship Support System and Start-ups	07
	Introduction to start-up's, Role of District Industries Centre in setting up industry,	
	Function of NSIC, SISI, NISIET, NRDC, SSIC, SIDO, NMTC, KVIC, RSMML,	
	Role of state finance corporation, state electricity corporations, pollution control	
	board, BIS, I.S.O. etc.	
Unit – IV	4.0 Introduction to Tax System, Insurance and Acts	07
	Idea of income tax, sales tax, excise duty and custom duty, Industrial and fire insurance, procedure for industrial insurance, Introduction to Industrial acts, factory act, Workmen's compensation act 1923, Apprentices act 1961, Environmental protection act 1986.	
Unit – V	5.0 Project Report Preparation	07
	Procedure of preparing a project report, Format of project report, Preparation of project report, Introduction to ISO: 9000 Series of Quality System.	

Books		
Name of Authors	Title of the Book	Publisher
E Gordon, K Natarajan	Entrepreneurship Development	Himalaya House
Dr R K Singal, Shruti Singal	Entrepreneurship Development	Katson Books
Robort A Baron	Entrepreneurship	E E Pub.

Subject Name: Project		
Course Code : BVPTL204	Semester: II	
Weekly Practicals: PR: 03 Tut: 00	Scheme of Marking TH:	
TH Exam Duration:	Scheme of Marking PR: 75, IA: 75, Total: 150	
Credit:6		

Content		
On the basis of learning in the vocational diploma, a project to be taken up by the student strengthening his/her vocational skills		

Group GPT2 of Qualifier Packs

Course Code : BVPTE117	Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT2 of Qualification Packs other than that selected in GPT1.
Syllabus for this qualifier Pack is available on http://www.cgsc.in/pdf/MMAW%20L3.pdf	

Course Code : BVPTE128	Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT2 of Qualification Packs other than that selected in GPT1.
Syllabus for this qualifier Pack is available on http://www.cgsc.in/pdf/MIG MAG%20or%20G	MAW%20Welder.ndf

Course Code: BVPTE139	Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT2 of Qualification Packs other than that selected in GPT1.
Syllabus for this qualifier Pack is available on http://www.cgsc.in/pdf/Assisstant%20Tungsten%	%20Inert%20Gas%20Welder%20(Final).pdf

Course Code: BVPTE140	Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT2 of Qualification Packs other than that selected in GPT1.
Syllabus for this qualifier Pack is available on	

Course Code: BVPTE151	Semester: I
Weekly Skilling Hours: PR: 24 Tut: 00	Scheme of Marking TH: 00 , IA: 00 , Total: 00
PR Exam Duration: 06 Hours	Scheme of Marking PR: 200, IA: 00, Total: 200
Credit:15	Choose any one from specified Group GPT1 of Qualification Packs other than that selected in GPT1.
Syllabus for this qualifier Pack is available on	<u> </u>